

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P192882

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL3-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21764.5 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

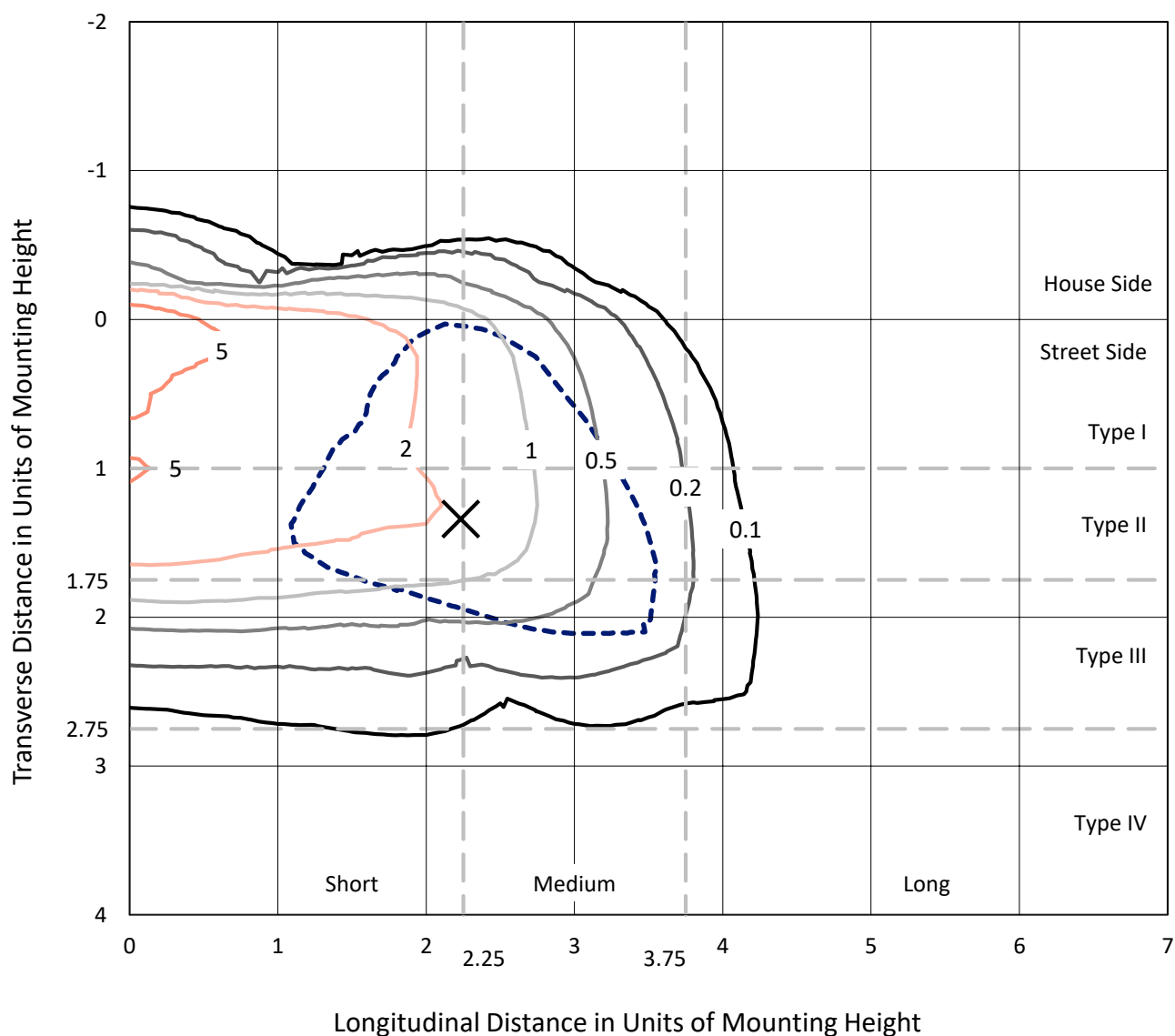


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

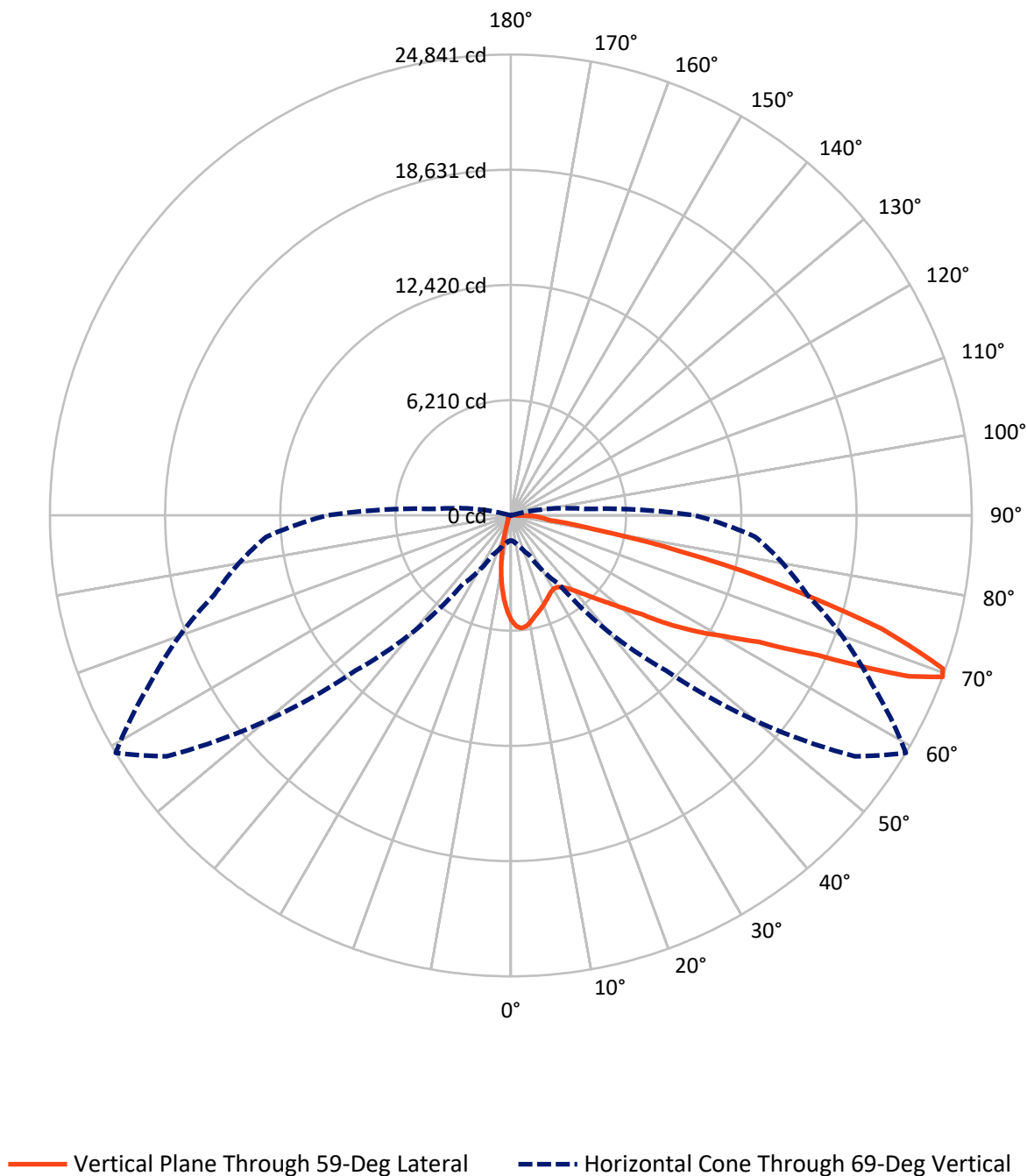


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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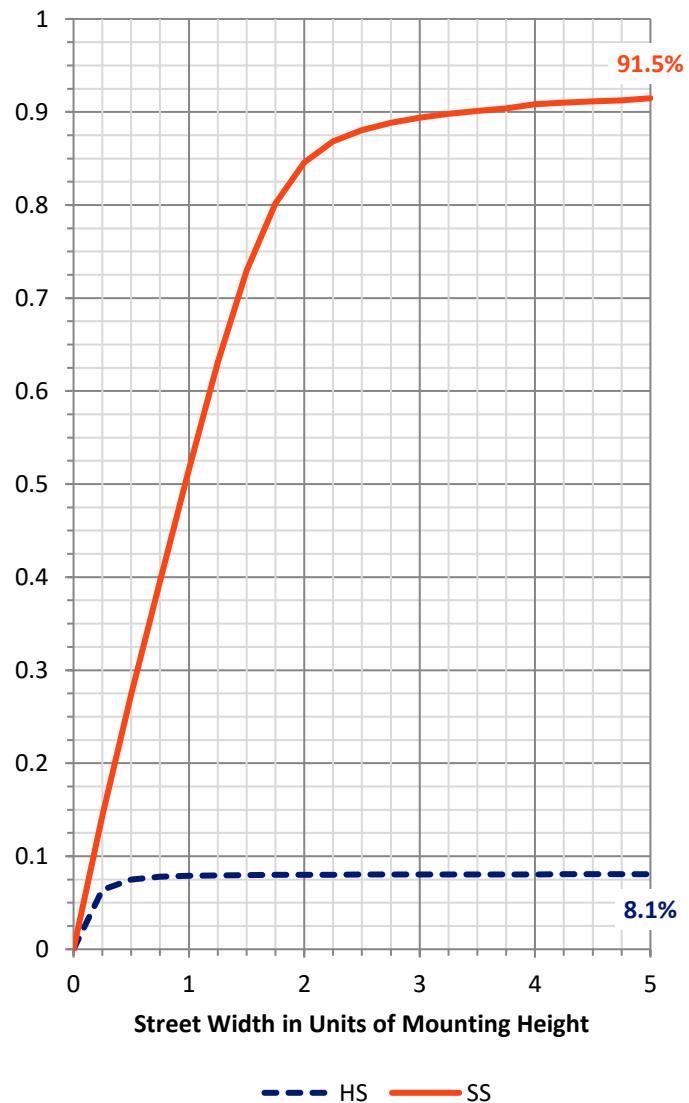
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1772.4	0.0	1772.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	19992.0	0.0	19992.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	21764.5	0.0	21764.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.8	2.1
10°-20°	950.1	4.4
20°-30°	1278.5	5.9
30°-40°	1856.3	8.5
40°-50°	3091.0	14.2
50°-60°	4821.8	22.2
60°-70°	5966.6	27.4
70°-80°	3023.8	13.9
80°-90°	316.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21764.5	100.0
0°-180°	21764.5	100.0

Coefficient of Utilization



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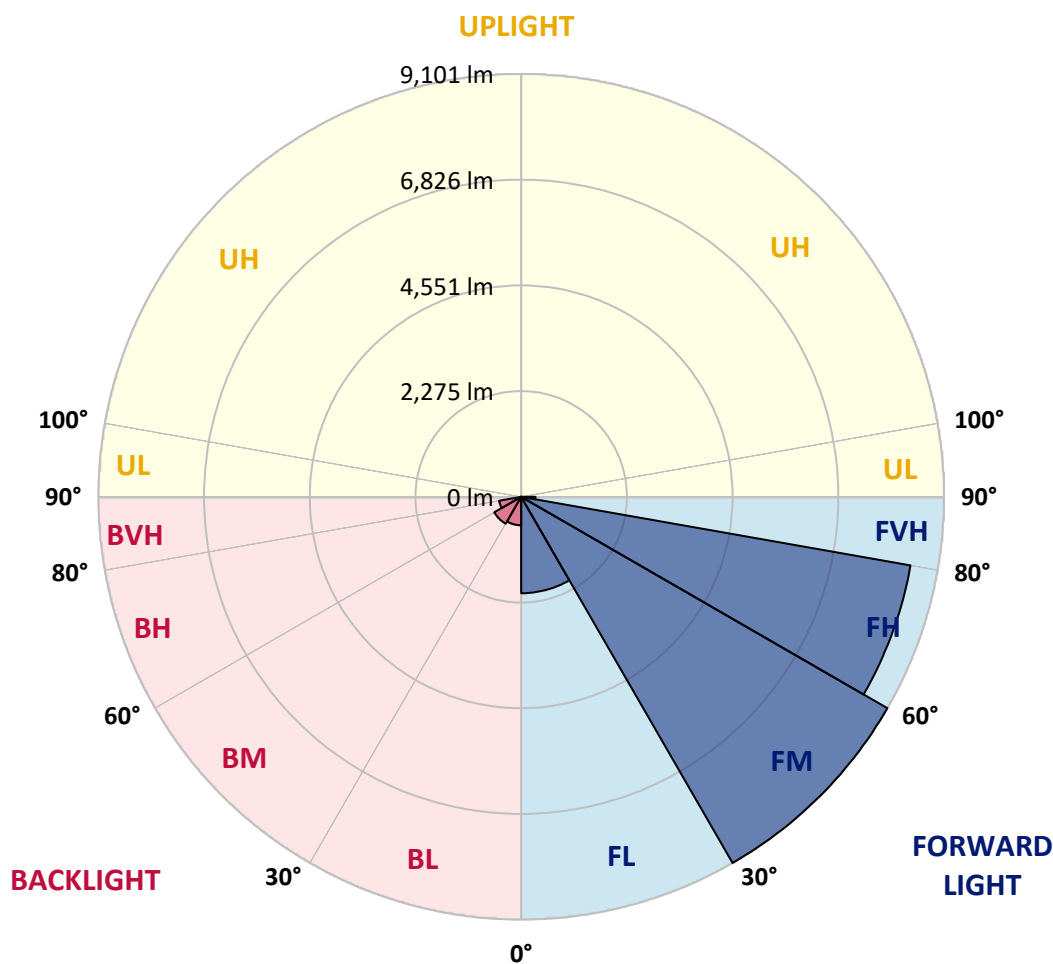
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2075.0	9.5			
FM	(30°-60°)	9101.3	41.8			
FH	(60°-80°)	8509.1	39.1			G4/12000
FVH	(80°-90°)	306.7	1.4			G3/500
BL	(0°-30°)	613.5	2.8	B2/1000		
BM	(30°-60°)	667.9	3.1	B1/1000		
BH	(60°-80°)	481.3	2.2	B1/500		G1/500
BVH	(80°-90°)	9.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5665.0	5665.0	5665.0	5665.0	5665.0	5665.0	5665.0	5665.0	5665.0	5665.0	5665.0
2.5°	6208.9	6206.5	6179.3	6167.1	6145.0	6098.2	6025.5	5987.4	5925.9	5818.8	5674.8
5°	6152.4	6181.9	6197.8	6199.2	6215.1	6197.8	6132.6	6100.7	6015.7	5843.4	5585.0
7.5°	5768.4	5779.5	5824.9	5864.4	5940.7	6013.3	6036.7	6023.1	5972.6	5788.0	5444.7
10°	5357.3	5368.4	5422.5	5474.2	5577.5	5689.5	5807.7	5832.4	5853.2	5709.4	5309.4
12.5°	5002.9	5013.9	5069.3	5137.1	5257.7	5395.4	5578.9	5619.4	5711.7	5634.2	5201.0
15°	4697.6	4702.5	4756.7	4840.4	4984.4	5161.6	5369.6	5434.9	5576.4	5581.3	5106.2
17.5°	4438.0	4450.2	4483.5	4563.5	4721.0	4940.0	5182.5	5276.1	5442.2	5537.0	5013.9
20°	4279.2	4291.4	4290.3	4334.6	4476.2	4709.9	4995.5	5107.5	5309.4	5491.5	4931.5
22.5°	4248.4	4248.4	4216.5	4210.3	4294.0	4489.7	4801.1	4937.7	5190.0	5471.8	4873.6
25°	4358.0	4353.0	4273.0	4207.8	4211.5	4328.5	4612.7	4775.1	5089.0	5485.3	4842.9
27.5°	4589.3	4583.2	4482.3	4358.0	4258.3	4257.1	4469.9	4644.7	5009.0	5549.3	4855.2
30°	4909.3	4906.9	4797.3	4641.0	4460.1	4294.0	4420.7	4579.5	4957.3	5665.0	4883.5
32.5°	5258.8	5255.2	5172.7	5007.8	4778.9	4460.1	4472.4	4605.4	4972.1	5818.8	4952.4
35°	5629.2	5623.1	5587.4	5443.4	5191.1	4766.6	4642.2	4745.6	5065.6	6048.9	5087.7
37.5°	6030.4	6036.7	6062.5	5924.7	5660.0	5196.1	4926.5	4996.8	5253.9	6361.6	5308.1
40°	6622.5	6621.2	6629.9	6448.9	6194.2	5721.6	5324.1	5346.3	5569.0	6776.4	5642.8
42.5°	7696.9	7621.8	7394.1	7025.0	6768.9	6322.2	5824.9	5801.5	5954.2	7289.6	6111.8
45°	9140.5	8980.6	8389.8	7682.1	7354.8	6999.0	6441.6	6366.5	6463.7	7906.1	6690.2
47.5°	10382.4	10216.2	9380.6	8366.4	7976.3	7641.5	7164.0	7028.6	7060.7	8596.5	7423.7
50°	10804.4	10723.2	9993.4	8962.1	8578.1	8450.1	8002.1	7837.1	7791.8	9395.3	8274.1
52.5°	10658.0	10651.8	10165.7	9348.6	9129.4	9286.9	9056.8	8866.1	8698.6	10237.0	9139.3
55°	10422.9	10453.7	10235.9	9686.9	9679.6	10051.3	10499.3	10340.6	9855.6	11151.5	9885.1
57.5°	9774.4	9906.0	10196.5	10326.9	10629.8	11009.9	11700.5	11794.0	11220.5	11851.8	10504.1
60°	7930.7	8219.9	9170.0	10419.3	11854.3	12801.9	13150.2	13230.2	12340.4	12433.9	11339.8
62.5°	5629.2	5924.7	7129.5	9242.7	11872.7	15156.2	15310.1	14996.3	13573.6	13296.7	12780.9
65°	2988.1	3215.8	4200.5	6671.7	10293.8	15702.7	19087.1	18151.8	15749.5	14993.7	14643.0
67.5°	1528.5	1597.5	1988.8	3265.1	7076.6	13947.7	22472.9	23131.3	19499.5	16677.5	14553.3
69°	1352.5	1393.2	1652.9	2360.5	4531.5	11813.6	22637.8	24840.7	21462.5	16537.2	13225.3
70°	1309.5	1345.2	1581.4	2136.6	3541.9	9907.3	22006.5	24690.6	21964.6	16002.9	12233.3
72.5°	1111.3	1142.1	1408.0	1887.9	2878.7	4918.0	17876.1	20922.2	19710.0	13331.2	8855.0
75°	743.4	844.2	1351.3	1769.8	2678.1	2793.8	11785.4	15119.3	14045.0	8991.6	4612.7
77.5°	178.4	192.0	381.6	1408.0	2449.1	2459.0	6061.2	9399.0	7666.1	3204.8	1090.4
80°	96.0	92.4	107.1	279.3	2280.6	2307.5	2728.5	4562.2	2737.2	531.6	359.4
82.5°	67.7	64.0	69.0	116.9	717.5	2102.0	1974.1	2065.1	1134.7	204.4	161.2
85°	24.6	23.4	38.1	105.9	225.2	1208.5	2028.2	1703.4	919.3	93.5	118.1
87.5°	8.6	7.4	14.7	57.8	69.0	514.4	1251.7	1287.3	361.8	56.6	55.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5665.0	5665.0	5665.0	5665.0	5665.0	5665.0	5665.0	5665.0	5665.0	5665.0	5665.0
2.5°	5614.5	5538.3	5398.0	5253.9	5121.0	4961.0	4881.0	4802.3	4769.0	4756.7	4698.9
5°	5452.0	5322.9	5025.1	4725.9	4450.2	4157.4	3964.2	3809.1	3718.0	3673.8	3603.6
7.5°	5244.1	5032.4	4580.7	4119.2	3689.6	3266.3	2952.5	2711.3	2545.0	2465.1	2392.6
10°	5042.2	4760.4	4118.0	3489.0	2905.8	2344.4	1911.3	1597.5	1396.9	1304.5	1245.4
12.5°	4861.3	4495.8	3671.2	2874.9	2142.7	1485.5	1044.8	795.1	670.8	627.7	606.7
15°	4700.2	4252.2	3249.1	2291.6	1451.0	849.2	571.1	486.1	466.4	466.4	464.1
17.5°	4547.5	4013.3	2841.8	1743.9	910.6	519.3	434.5	423.4	423.4	428.3	428.3
20°	4401.1	3785.8	2447.9	1251.7	573.5	412.2	392.6	390.2	392.6	398.8	398.8
22.5°	4275.6	3578.9	2079.9	859.0	425.8	371.7	361.8	358.2	359.4	363.1	365.5
25°	4182.0	3404.2	1732.9	582.2	366.8	338.4	327.3	321.2	316.3	316.3	318.7
27.5°	4122.9	3256.5	1396.9	423.4	329.9	307.7	290.4	280.6	269.6	263.5	265.8
30°	4079.8	3116.2	1081.7	345.8	295.3	273.2	251.1	235.0	219.1	211.6	214.1
32.5°	4063.8	3003.0	808.6	305.3	264.6	240.1	212.9	192.0	174.9	168.6	169.8
35°	4106.9	2913.1	591.9	275.7	240.1	209.2	178.4	155.0	141.5	137.8	139.1
37.5°	4220.1	2865.1	443.0	251.1	217.9	183.3	148.9	126.7	118.1	118.1	119.4
40°	4434.3	2863.9	355.6	233.9	198.2	158.8	123.0	107.1	102.1	104.6	105.9
42.5°	4746.9	2929.1	310.2	217.9	181.0	135.4	102.1	91.1	89.8	92.4	93.5
45°	5174.0	3048.5	285.5	204.4	162.5	113.2	86.1	78.7	78.7	82.5	83.7
47.5°	5697.0	3223.2	264.6	190.7	144.0	94.7	73.9	69.0	70.2	73.9	75.1
50°	6327.1	3443.6	243.6	176.0	130.4	78.7	64.0	60.3	61.5	66.4	67.7
52.5°	7044.6	3740.2	226.5	162.5	113.2	65.2	54.2	51.7	54.2	59.1	60.3
55°	7659.9	4006.0	205.5	151.4	91.1	54.2	44.4	44.4	46.8	52.9	54.2
57.5°	8252.0	4284.2	187.1	130.4	71.3	43.0	36.9	38.1	41.8	48.0	49.2
60°	9120.9	4755.5	164.9	109.6	54.2	34.4	30.8	32.0	36.9	43.0	44.4
62.5°	10596.5	5473.1	142.8	91.1	41.8	27.1	24.6	27.1	33.3	40.7	41.8
65°	11928.1	5764.6	116.9	76.3	32.0	20.9	20.9	24.6	32.0	39.4	40.7
67.5°	11186.0	4852.8	91.1	60.3	24.6	16.0	17.3	23.4	30.8	39.4	40.7
69°	9892.5	3967.9	77.6	48.0	20.9	14.7	16.0	23.4	30.8	38.1	39.4
70°	8884.5	3350.0	69.0	40.7	18.5	14.7	16.0	22.2	30.8	38.1	39.4
72.5°	5950.5	1809.2	55.4	29.5	17.3	13.5	13.5	22.2	29.5	36.9	38.1
75°	2557.4	499.7	44.4	20.9	14.7	12.3	12.3	20.9	28.3	35.7	38.1
77.5°	467.6	126.7	35.7	18.5	14.7	12.3	11.0	19.6	27.1	34.4	35.7
80°	185.8	62.8	28.3	16.0	13.5	11.0	9.9	18.5	25.9	33.3	34.4
82.5°	112.0	35.7	23.4	14.7	13.5	9.9	8.6	16.0	24.6	32.0	33.3
85°	91.1	24.6	18.5	14.7	12.3	9.9	7.4	14.7	22.2	30.8	32.0
87.5°	44.4	17.3	17.3	13.5	12.3	9.9	7.4	13.5	20.9	29.5	30.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)